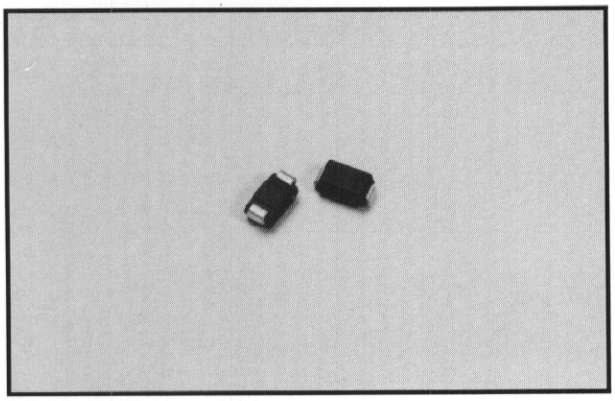
查询US1D供应商

US1A Thru US1M

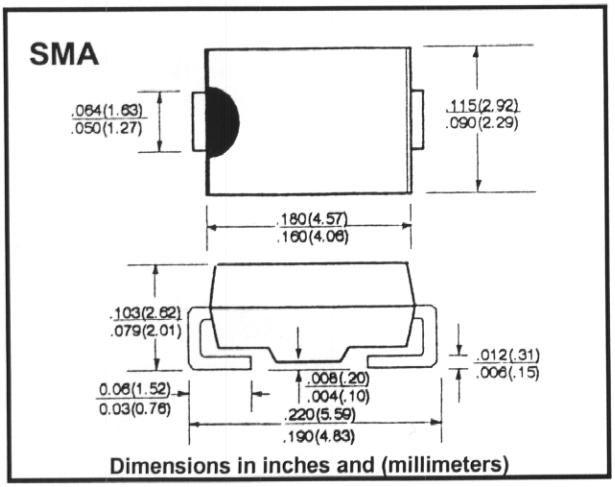
1 AMP SURFACE MOUNT GLASS FAST RECOVERY RECTIFIER



FEATURES

- Rating to 1000V PRV
- For surface mount applications
- Reliable low cost construction utilizing molded plastic technique
- Glass passivated junction
- High temperature soldering: 250 °C/10 seconds at terminal
- UL recognized 94V-O plastic material
- Fast switching for high efficiency

Outline Drawing



Mechanical Data

- Case: Molded Plastic
- Polarity: Indicated on cathode
- Weight: 0.002 ounces, 0.064 grams

Maximum Ratings & Characteristics

- Ratings at 25° C ambient temperature unless otherwise specified
- Single phase, half wave, 60Hz, resistive or inductive load
- For capacitive load, derate current by 20%

		US1A	US1B	US1D	US1G	US1J	US1K	US1M	Units
Maximum Recurrent Peak Reverse Voltage	V_{RRM}	50	100	200	400	600	800	1000	V
Maximum RMS Input Voltage	V_{RMS}	35	70	140	280	420	560	700	V
Maximum DC Blocking Voltage	V_{DC}	50	100	200	400	600	800	1000	V
Maximum Average Forward Output Current @ T_L =75°C	$I_{(AV)}$	1.0							A
Peak Forward Surge Current 8.3 ms Single Half-Sine-Wave Superimposed On Rated Load	I_{FSM}	30							A
Maximum DC Forward Voltage Drop Per Element At 1.0A DC	V_F	1.0			1.3	1.7			V
Maximum Reverse Current At Rated DC Blocking Voltage per Element @ T_A = 25°C @ T_A = 100°C	I_R	5 100							µA µA
Maximum Reverse Recovery* (See Note)	t_{rr}	50				75			nS
Typical Junction Capacitance **(See Note)	C_J	20				10			pF
Maximum Thermal Resistance***(See Note)	$R_{(THJL)}$	30							°C/W
Operating Temperature Range	T_J	-65 to +150							°C
Storage Temperature Range	T_{STG}	-65 to +150							°C

Note: *Test Conditions: IF = 0.5A, IR = 1.0A, Irr = 0.25A

**Measured at 1.0MHz and applied reverse voltage of 4.0V DC